

## Load Cells SAUTER CR Q1 · CR P1 · CR Y1





Fig. shows accessories, load corner

SAUTER CE Q42901, for further accessories please visit our online shop





## CR Q1 Load cells made of stainless steel

## Technical data

- · Accuracy in accordance with OIML R60 C1
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- Area of application: Weight measurement as well as compressive force
- Suitable for vehicle scales, funnel scales, vehicle testing equipment, test stands
- Nominal sensitivity: 2 mV/V
- Cable length approx. 10 m

## Accessories CR Q1:

- Load corner, steel, galvanised, suitable for CR Q1 with nominal load ≤ 10 t, SAUTER CE Q42901
- Load corner, steel, galvanised, suitable for CR Q1 with nominal load  $\geq$  20 t, SAUTER CE Q42902
- Load corner, steel, rustproof, suitable for CR Q1 with nominal load ≤ 10 t,
   SAUTER CE RQ42901
- Load corner, steel, rustproof, suitable for CR Q1 with nominal load ≥ 20 t, SAUTER CE RQ42902

# Load cells made of stainless steel

## Technical data

CR P1

- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- Area of application: Weight measurement as well as compressive force
- Suitable for truck scales, suspended scales, silo scales and other diverse scales, test stands, etc.
- Nominal sensitivity: 1-2 mV/V, depending on nominal load
- Cable length up to 1000 kg: 3 m
   Cable length from 2000 kg: 6 m

## Accessories CR P1:

- Load corner for CR 1000-3P1, CR 250-3P1, CR 500-3P1 Steel, incl. pressure piece, SAUTER CE P244011
- Pressure piece for CR 1000-3P1, CR 250-3P1, CR 500-3P1 steel, SAUTER CE P244012
- Load corner for CR 2000-3P1 steel, rustproof, incl. pressure piece,
   SAUTER CE P244021
- Pressure piece for CR 2000-3P1 steel, rustproof SAUTER CE P244022

OPTION

## CR Y1 Load cells made of alloyed steel

#### Technical data

- High precision (comprehensive Error 0,05 % F.S.)
- · Accuracy in accordance with OIML R60 C1
- RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- Area of application: for weight, tensile and compressive force measurement
- Suitable for weight measurement as well as force and force test stands
- Force transmission via pressure piece or threaded hole
- Nominal sensitivity: 2 mV/V
- Pressure piece included in delivery
- Thread for pressure piece or other force application: up to 5000 kg M16×1,5, from 10000 kg M32×1,5
- · Cable length approx. 3 m

## Tip

Further details and technical data sheet as well as an extensive range of accessories can be found at

# STANDARD







Model Nominal load

## SAUTER

STANDARD

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Model

OAGIEN		
CR 2500-1Q1	2,5 t/25 kN	
CR 5000-1Q1	5 t/50 kN	
CR 10000-1Q1	10 t/100 kN	
CR 20000-1Q1	20 t/200 kN	
CR 30000-1Q1	30 t/300 kN	

Nominal load

# STANDARD

Model





SAUTER		
CR 60-3P1	60 kg/0,6 kN	
CR 130-3P1	130 kg/1,3 kN	
CR 250-3P1	250 kg/2,5 kN	
CR 500-3P1	500 kg/5 kN	
CR 1000-3P1	1000 kg/10 kN	
CR 2000-3P1	2000 kg/20 kN	

Nominal load

SAUTER

CR 500-1Y1	0,5 t/5 kN	
CR 1000-1Y1	1 t/10 kN	
CR 5000-1Y1	5 t/50 kN	
CR 10000-1Y1	10 t/100 kN	
CR 20000-1Y1	20 t/200 kN	

<sup>\*</sup> up to max. 500 kg/5 kN

<sup>\*\*</sup> up to max. 25 t/250 kN

<sup>\*</sup> up to max. 500 kg/5 kN

## **MEASURING TECHNOLOGY & TEST SERVICE 2024**

**SAUTER Pictograms** 



Conformity assessment

Models with type approval

**DAkkS** calibration

The time required for

DAkkS calibration is shown

Factory calibration (ISO)

The time required for factory

calibration is specified in

Package shipment

The time required for

internal shipping prepara-

tions is shown in days in

the pictogram

the pictogram

the pictogram

Pallet shipment

The time required for

internal shipping prepara-

tions is shown in days in

in days in the pictogram

systems

possible

for construction of verifiable

M

DAkkS

+3 DAYS

ISO

1 DAY



## Adjusting program (CAL)

For quick setting of the instrument's accuracy. External adjusting weight required



## **Calibration block**

Standard for adjusting or correcting the measuring



## Peak hold function

Capturing a peak value within a measuring process



#### Scan mode

Continuous capture and display of measurements



## **Push and Pull**

The measuring device can capture tension and compression forces



## Length measurement

Captures the geometric dimensions of a test object or the movement during a test process



#### Focus function

Increases the measuring accuracy of a device within a defined measuring range



## Internal memory

To save measurements in the device memory



## Data interface RS-232

Bidirectional, for connection of printer and PC



## **Profibus**

For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference



## **Profinet**

Enables efficient data exchange between de-centralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible



## Data interface USB

To connect the measuring instrument to a printer, PC or other peripheral devices



## Bluetooth\* data interface

To transfer data from the balance/measuring instrument to a printer, PC or other peripherals



## WIFI data interface

To transfer data from the balance/measuring instrument to a printer, PC or other peripherals



## Data interface infrared

To transfer data from the measuring instrument to a printer, PC or other peripheral devices



# **Control outputs** (optocoupler, digital I/O) To connect relays, signal

lamps, valves, etc.



## Analogue interface

To connect a suitable peripheral device for analogue processing of the measurements



## Analogue output

For output of an electrical signal depending on the load (e.g. voltage 0 V - 10 V or current 4 mA - 20 mA)



#### Statistics

Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



## **PC Software**

To transfer the measurement data from the device to a PC



## Printer

A printer can be connected to the device to print out the measurement data



## **Network interface**

For connecting the scale/ measuring instrument to an Ethernet network



## **KERN Communication** Protocol (KCP)

It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems



## GLP/ISO record keeping

of measurement data with date, time and serial number. Only with SAUTER printers



## Measuring units

Weighing units can be switched to e.g. non-metric. Please refer to website for more details



#### Measuring with tolerance range (limit-setting function)

Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model



#### Protection against dust and water splashes IPxx

The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989 +A1:1999+A2:2013



#### **ZERO**

Resets the display to "0"



## **Battery operation**

Ready for battery operation. The battery type is specified for each device



#### Rechargeable battery pack

Rechargeable set



#### Plug-in power supply 230V/50Hz in standard

version for EU. On request GB, AUS or US version available



## Integrated power supply unit

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request



## Motorised drive

The mechanical movement is carried out by a electric motor



## Motorised drive

The mechanical movement is carried out by a synchronous motor (stepper)



## **Fast-Move**

The total length of travel can be covered by a single lever movement



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